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Among Nivaldo Rojas achievements are participation in the discovery of the porphyry copper deposits at La Escondida (Chile) and Agua Rica (Argentina), and the Diablillos gold-silver deposit (Argentina). While at BHP he received the Excellence in Exploration award for his contribution to the Agua Rica discovery.

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Bob Foster is Minerals Manager for the UK-based mineral and hydrocarbon consultancy group Exploration Consultants Ltd. He has contributed to the minerals industry as a professional economic geologist occupying exploration, mining and academic posts for 31 years.

Commencing his professional career in Zimbabwe in 1973, he was deeply involved in all aspects of the minerals industry of that country and in particular in gold exploration and mining. Subsequently moving to the University of Southampton, UK, in 1984, he established a substantial applied research group working world-wide from Brazil to China and Indonesia and throughout Africa during 1984-1998. He has published more than 60 scientific papers and edited two volumes on gold mineralisation and exploration. Linked consultancy activities took him to Europe, Africa, Australia, Asia and the Americas. During 1991-1996 he was a member of the Pan African Mining Ltd management team that developed an open pit gold mine in Zimbabwe, and was Director (Exploration) of a successful major gold exploration programme for a Pan African joint venture, also in Zimbabwe, during 1994-1996.

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Phyllis A. Lyday has been the boron commodity specialist for the US federal government since 1980. After obtaining a B.S. in Geology-Chemistry from the University of Alabama and a Masters in Energy Resources from the School of Engineering, University of Pittsburgh, she worked for various state and federal agencies in Alabama and North Carolina. She is a charter member of the Washington DC Section of Women in Mining and has served as both chapter and national president, and received the WIM National Distinguished Service Award. She is past chairman of the Washington DC Section of the Society for Mining, Metallurgy, and Exploration, and received the section Herbert C. Hoover Award. She is registered as a certified geologist in the state of Virginia.

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John Menzies hold a BSc.(Hons) in geology. He has more than 25 years experience in the resource sector. He was a senior geologist for Amax Inc responsible for gold exploration in Western Australia from a base in Kalgoorlie. As a consultant he advised companies on projects as diverse as gold, base metals, diamonds and industrial minerals. More recently he has focused on the financial aspects of the natural resources sectors and has been involved in the successful development of mining and energy projects internationally. He has acted as a director and executive of both Australian and Canadian listed companies and is a member of professional societies in Australia, North America and Europe. He is Chairman of CMI Capital Ltd and Omax Resources Ltd and Managing Director of Bulgarian minerals exploration company Martern EOOD.

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Mr Songore gained a Licence in Geology & Mineralogy from the University of Louvain in 1982, and an M.Sc. in Geochemistry from Leeds University in 1985.

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On August 1, 2002, Mr Aboagye was appointed the Director of Planning and Policy Analysis of the Minerals Commission. His duties include: initiation of strategies, policies, programmes and projects for the formulation of mineral policy, including prioritisation of projects; promotion of exploration, exploitation and national development of the mining industry; receiving, processing, adjudicating, monitoring and recommending government approvals, renewals, and cancellation of mineral licences; and preparation and review of promotional brochures aimed at attracting investment into the mining industry.

Mr Aboagye has, in addition to his academic qualifications, attended short courses in the areas of mining and the environment worldwide.

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In 1993 he was transferred to the Hungarian Geological Survey, where he has commanded the secretariat of the Survey and has the responsibility for foreign and public relations. Retireming from his governmental agency position soon, he wants to return to his earlier expertise, acting as independent geophysicist and working for the Association of Hungarian Geophysicists.

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Allan Cooper graduated from the University of Cambridge in 1961 with a degree in metallurgy. After a brief spell in the steel industry, he joined Associated Lead Manufacturers (later Cookson Industrial Materials) in 1964. After serving in several technical and managerial roles he became Director of Research in 1983 before moving to the parent Cookson Group as Technical Development Manager. He left Cookson in 1991 and since then has acted as a consultant to the Lead Development Association in London, and as Projects Co-ordinator for the Advanced Lead Acid Battery Consortium's activities in Europe.

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Dr Leahy completed his B.Sc. (1992) and Ph.D. (1996) at the University of Leeds (UK) with a year between the two working on structural control of Witwatersrand gold. His PhD examined the geology of the Fort à la Corne kimberlite province, Canada. He had a spell employed as a regional structural geologist at Rock Deformation Research (in both gold and hydrocarbon exploration), before joining Exploration Consultants Ltd (ECL) in 1998. At ECL Kevin was involved in gold and diamond exploration, GIS analysis, country promotions, hydrocarbon exploration, and regional tectonic and terrane analysis. His broad areas of expertise include integrated regional studies, kimberlite geology, sedimentology and geochemistry, and integration and analysis in GIS applications. He has authored numerous publications, and has presented at several conferences including the Fermor Conference, International Kimberlite Conference and the African Mining Indaba.

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Robert E. (Bob) Brown was born in the 'Copper Country' of northern Michigan and educated in local schools. He received a B.Sc. in Metallurgical Engineering from Michigan Tech. After graduation, Mr Brown was employed by American Brake Shoe Co. in its two-year iron foundry apprentice programme.

After a three-year tour with the US Air Force as a navigator, Mr Brown was employed by Dow Chemical in the Magnesium Production Development Group. Mr Brown later transferred to Magnesium Applications and worked on a programme of desulphurisation of steel with injected magnesium-lime mixes. He then moved to a new silicothermic magnesium production plant in Alabama as plant metallurgist, and was later promoted to superintendent of melting and casting, and then to director of Magnesium Operations. After the plant closed, Mr Brown went to Bendix Foundries as manufacturing manager of an aluminum and magnesium sand, investment and die casting foundry.

As a consultant, Mr Brown worked as executive secretary of the International Magnesium Association for three years. Past and present clients have included Dow, American Magnesium (Texas), UBE Industries, Magnode Products, Cast Rite Foundry, Magnalith Corp., Harsh Metallize Industries (India), a major Indian tea corporation, Remacor, Andrew Lechner and Associates, Peter Ensio and Associates, Metallurg (Shieldalloy), Xstrata Corp. Anaconda Nickel (Australia), Antheus Project (Netherlands), Sentinient Group (Australia) VAMI (Russia), China Steel Corporation (Taiwan), POSCO (Korea), Dead Sea Magnesium, and Quay Magnesium (Australia).

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### **International Nickel Study Group      Nickel**

The International Nickel Study Group (INSG) is an intergovernmental organization aimed at improving world market transparency and strengthening the international cooperation on nickel related issues. The INSG Secretariat is based in The Hague, The Netherlands, since the establishment of the Study Group in 1990, and currently comprises 13 members.

#### **SCOPE OF ACTIVITIES:**

- Collect, process and publish improved statistics on nickel markets;
- Compile and publish other information on nickel, such as data on industry facilities and environmental, health and safety issues;
- Provide a forum for consultations on issues of interest to nickel producing and consuming countries and their industries;
- Undertake economic analysis of nickel markets and related topics.

#### **WORLD NICKEL STATISTICS AND NICKEL MARKET FORECAST:**

The INSG statistical bulletin provides a monthly release of the main nickel statistical parameters per country:

- Mine and primary nickel production, trade, stocks and consumption;
- Trade in nickel bearing and stainless steel scrap;
- Nickel content of the products referred to above;
- Processing of some world stainless steel melt production data.

Twice a year, the INSG Secretariat prepares a short-term world market balance, which contributes to enhancing the world market transparency.

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In the early 1990s, Mr. Disini was instrumental in finding the 650 Mt Far South East porphyry gold-copper deposit situated near the existing copper mine in Benguet. Under his management, Lepanto discovered in 1995 the 4.3 Moz Victoria Gold deposit and placed it into operation in 18 months, which is a Philippine record.

He has been elected recently as Chairman of the Chamber of Mines of the Philippines. Mr. Disini strongly advocated sustainable and responsible mining. He supported the struggle to legally protect the constitutionality of the 1995 Philippine Mining Act and he is against the confiscatory provisions of laws like the Indigenous Peoples Rights Act. He was previously the President of the Chamber of Mines, Vice President of the Copper Sector and Chairman of the Editorial Board. He was President of the Philippine Mine Safety Association for two terms.

In 1994, he was awarded the Most Outstanding Alumnus of the University of the Philippines in Mining Engineering. In 1998, he was conferred the biennial award by the Philippine Society of Mining Engineers as the Outstanding Mining Engineer in Mine Management. Eventually he received the highest award in mining engineering, the coveted Outstanding Mining Engineer of the Year Award, a distinction given annually by the Philippine's Professional Regulation Commission. In 2000, he was awarded the Outstanding Alumnus of the UP Alumni Engineers for his contribution to the mining industry.

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Ben Dhonau read Natural Sciences at Cambridge, receiving his BA in 1966 and a Ph.D. in 1970. He joined the Geological Survey of Ireland in 1969, and initially worked as a field geologist. Since 1974 he has worked on many aspects of mineral development, including negotiation of State mining facilities and examination of Environmental Impact Statements for new mines. His principal interests are mineral economics, mining law and policy, and sustainable development for the extractive industry. He has been a member of the staff of the Exploration and Mining Division since its formation in 1992.

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His priority has been the identification and assessment of mineral concentrations in complex deformed terrains, irrespective of commodity. Studies completed include feasibility, pre-feasibility and exploration assessments of deposits of gold, coal, phosphate, tin, iron ore, carbonatite, chromite, silver, tin and diamonds in a wide variety of countries worldwide.

Recently Leslie Wright has been:

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Born near London in 1949, he completed his Ph.D. at Leeds University in 1976, studying finite strain, tectonic history and mineralisation in the Limpopo belt of Botswana and Zimbabwe. He followed this with a similar research programme based at Montpellier in France into the Pan-African Orogeny in the Malian Sahara desert. He then embarked on a career to apply the techniques he had learned to the identification and evaluation of mineral resources. The African connection has continued with a continuing association since 1980 with government, university and the private sector in Sierra Leone, and with exploration and feasibility studies undertaken in Mali, Niger, Burundi, Liberia and Guinea.

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Mr. Sado D. Turbat is one of the key players in the management team; he has worked for a number of international agencies and the Mongolian Government, and in a number of sectors including agricultural development, restructuring of social insurance system, social welfare network, legal reform in the mining sector, macro economic policy and privatisation of state-owned enterprises. He actively participated in development and design of the current social insurance reform, Minerals Law, and the government Privatisation Programme (adopted in 1997) when he was working for EPSP and the Government of Mongolia. Mr Turbat graduated from the Mongolian National University as a labour economist, and later received MBA and MA from Leeds University in UK and Waseda University in Japan.

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Anthony Williamson was first employed by Newmont Australia after graduating in 1979 with a B.App.Sc. from the University of Technology Sydney. Mr Williamson completed an M.Sc. degree part time at James Cook University while employed from 1982-86 by the Geological Survey of Papua New Guinea.

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Geoff Blackburn is a Consulting Geologist with more than 30 years experience in the exploration for precious and base metals. Although based in Perth, Western Australia, he has had considerable experience in a variety of African countries since 1982.

He has recently been directly involved in the discovery of significant PGM mineralisation at Indee in Western Australia. He has been involved with PGM exploration since his first discovery of PGMs in 1986 and has become a respected exploration consultant in this field, in particular by applying his interest in alternative (or non Bushveld) models towards the discovery of new PGM deposits. He remains actively involved in gold exploration and has been associated with many discoveries of gold mineralisation. He has a keen interest in 3D geochemistry and the application of low level detection methodologies from an exploration viewpoint. He is the co-developer of the BLEG technology that has been responsible for the discovery of many gold deposits around the world.

He is the published author of three books on colonial history. This sense of history, coupled with his acknowledged research skills and wide ranging academia are important factors in creating potential new resource discoveries from the faintest of clues. He has been sought after to serve on a number of advisory and technical committees as well as presiding over Australia's peak professional exploration body.

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Born in Kahama District, Tanzania Dr Kafumu is married and has four children. He graduated with a B.Sc. (geology) Hons at the University of Dar-Es-Salaam in 1983. Since then he was employed by the said ministry as an exploration geologist. Between 1983 and 1987, he was a field Project Leader and Exploration Geologist for the URT/UNDP gold and base metal mineral exploration projects in the Lake Victoria gold fields. The projects were undertaken in joint venture by the Geology Section (equivalent to the Geological Survey) of the Minerals Division in Dodoma and UNDP expatriates. These basic projects led to the discovery of the Bulyanhulu Kahama gold deposits.

Between 1987-93, having obtained his Postgraduate Diploma in Education from the University of Dar-Es-Salaam, Dr Kafumu was Vice Principal, Tutor and Academic Coordinator at the Mineral Resources Institute in Dodoma, responsible for the management, Institutional/Infrastructure development and training of mining and geological technicians.

Between 1995 and 1997, having obtained his M.Sc. (Environmental Geology) degree from the Free University of Brussels in Belgium, he was Senior Geologist at the Ministry of Energy and Minerals (Minerals Division – Geology Section in Dodoma), responsible for mineral exploration, regional geological mapping and environmental impact assessment for natural hazards and mineral resource development activities.

Between 1997 and 2000 Dr Kafumu undertook a Doctoral research in environmental Quaternary geology in Olduvai Gorge – NE Tanzania at the Free University of Brussels, Belgium. In 2000–01 he resumed his post as a Senior Geologist at the Ministry of Energy and Minerals (Geology section) responsible for geological mapping, map preparation, map editing and geo-hazard environmental assessment, before being transferred to the Ministry's headquarters to be the acting Head of Promotion and Statistics in March 2001.

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Dr Hawkins worked in research and development for 21 years, gaining a Ph.D. in 1973. He then spent six years in Zambia with ZCCM before joining Memaco Services in London in 1980. Dr Hawkins opened Memaco's US Trading Office in 1988, and managed it until returning to London in 1993 as Memaco's Technical Manager. Dr Hawkins has been General Manager of the Cobalt Development Institute since 1997.

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## **Christopher Cavey      Gemstones**

Christopher Cavey is a gemmologist with a background of mineralogy, and of research in various aspects of the history of gemstones and their use in jewellery. He has a keen interest in engraved gemstones, especially intaglios, and in symbolical, ritualistic, and emblematic jewellery.

In 1977 he was invited to join the well known gemmologist John A. Fleming F.G.A., and it was their joint interest and love of gems that led to their acquisition of a business called Rough Gems Ltd. This firm soon gained a reputation for selling unusual, fine, and rare gemstones and mineral specimens. Among the many interesting and unusual items the company promoted and handled was the newly-discovered mineral charoite and a range of diamond crystals still in situ in kimberlite.

Among the numbers of important gemstones and mineral specimens that Mr Cavey has handled over the years was the first uncut waterworn crystal of the rare gemstone taaffeite, which he sold to London's Natural History Museum.

He qualified as a Fellow of the Gemmological Association of Great Britain in 1977 and was elected to its Governing Council in 1980, and at that time played an active role in the total rewriting of the gemmology correspondence course (leading to F.G.A., qualification). He became a consultant to *Mining Journal* in 1978, and a few years later started writing the 'Gemstones' report in *Mining Annual Review*.

He was elected Curator of the Gemmological Association collections in 1985, a position only previously held by four very distinguished gemmologists, which included Sir James Walton, Surgeon, to H.M. Queen Mary, Wife of George V; Robert Webster, lecturer and author of what is now one of the classic works on gemstones, "Gems their sources, descriptions and identification". He served the Gemmological Association and Gem Testing Laboratory of Great Britain as a member of its governing Council of Management and was a practical examiner for the F.G.A., diploma course until recently retiring. He is the gems' consultant to the 'Guinness Book of Records', and a long-standing member of the Society of Jewellery Historians.

During the course of his career Mr Cavey has presented many lectures on various aspects of gems and minerals, and has acted as consultant, valuer and advisor to many museums and educational establishments. He has escorted specialist tour groups through the complex gem and jewellery collections in London. He currently runs a shop with his full time partner Janet, at unit 178 Grays Antique Market, 58, Davies Street, London. W1, where he sells a wide range of gemstones, carvings (especially nephrite and jadeite of all periods), crystals, mineral specimens and unusual forms of jewellery. He also provides a valuation and consultancy service to a diverse range of clients.

Christopher Cavey is author of "Gems and Jewels, Fact and Fable", published by Studio Editions 1992. He also was one of the team who revised the 5th

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Mr Taylor has been President of Basics/Mines, his consulting group, since 1995. He has been Chair of the Subcommittee on Nomenclature, for ASTM Committee C18 on Dimension Stone since 1987. The author of the Graphite chapter in the Kirk-Othmer 'Chemical Encyclopaedia' and the 'Graphite Report' in the *Financial Times*' Executive Commodity Report series, and he updates events in the *Graphite Advocate News*, available on [www.basicsmines.com/graphite](http://www.basicsmines.com/graphite).

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Ted Dickson has over 21 years of experience in the industrial minerals industry. After obtaining a B.Sc. in geology from Edinburgh University and an M.Sc. in Mineral Exploration from the Royal School of Mines in London, he spent more than twelve years with *Industrial Minerals* magazine, split roughly evenly between the London and New York offices, latterly as American Editor. He then spent five years with a mining company, Cluff Resources, primarily assessing opportunities for the company to diversify into industrial minerals to supplement its gold mining activities. For the past ten years, he has been working as an independent consultant from his base in Gerrards Cross just outside London, specialising in the markets for industrial minerals.

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Mr Ericsson is managing director and co-founder of the Raw Materials Group (RMG). RMG operates the world's leading mining database Raw Materials Data including a unique Merger & Acquisitions Register. The group consists of mineral economists and mineral strategy/policy analysts. It specialises in global analysis of the mining industry starting with its in-house computerised project, ownership, production and exploration statistics. The mining equipment manufacturers are a key client group.

The Raw Materials Group advises mining companies, governments, international organisations and mining equipment and service suppliers extensively. A particular focus has been placed on developing government investment promotion strategies based on reviews of legislation, geology and organisation. Among our clients are the Governments of Greenland, Finland, Sweden, Namibia and South Africa.

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Brian Coope is a Materials & Minerals consultant specialising in industrial minerals and light metals with particular emphasis on processing, product development, and marketing. He has worked on minerals projects throughout the world for a range of clients from major mining companies, exploration companies, and mineral processing equipment manufacturers to financial institutions, government departments, and minerals consuming companies. Brian Coope is a Chartered Engineer and member of the Institute of Materials, Minerals, and Mining, the Minerals Engineering Society; and the Association of Mining Analysts.

He obtained a degree in industrial metallurgy (University of Birmingham, 1968) and then worked as a foundry metallurgist (Al & Mg) for the Aero Engine Division of Rolls-Royce. He joined Metal Bulletin in 1970 and later became Editor of *Industrial Minerals* magazine and during his thirteen years with *Industrial Minerals/Metal Bulletin* prepared detailed studies on virtually the whole range of nonmetallic minerals as well as writing books on glass and ceramic raw materials, editing directories and conference volumes, and organising international conferences. He remains active as an industry commentator and writes articles on a regular basis for *Industrial Minerals* and Mining Journal's *Mining Annual Review*. He has also presented papers at international conferences and has organised highly successful meetings in London for the Institution of Mining and Metallurgy (White Minerals 1996) and for the Institute of Materials, Minerals, and Mining (Magnesium 2002).

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Charles Skidmore is Chairman/Managing Director of Minchem Ltd. Minchem was formed in August 2000 as a management buyout from Mandoval Ltd and Zirconia Sales (UK) Ltd, wholly owned subsidiaries of Rio Tinto plc.

Mr Skidmore has been involved in zirconias and ceramics, refractories and minerals industries for over 30 years and was previously with Podmore & Sons Ltd, Stoke-on-Trent, UK. Before that he worked in paper, plastic, surface coatings and general chemicals, covering materials and capital equipment.

Mr Skidmore attended the University of Manchester Institute of Science and Technology in the UK, reading Physical Chemistry and holds membership of the Institute of Materials and the Royal Society of Chemistry.

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